SERVICE MANUAL

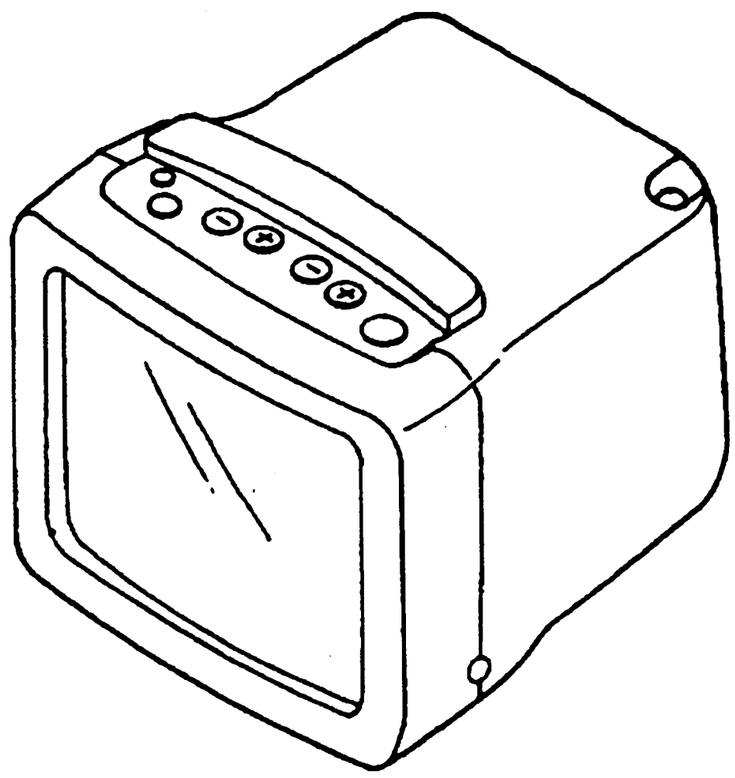
MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-25TH		US	SCC-H11C-A

MODEL	COMMANDER	DEST.	CHASSIS NO.

Note :

1. Adjustment Manual for this model is separately published.

	Adjustment Manual
Part No.	9-965-004-11



MICROFILM

※ Please file according to model size. ..... ▩

5

TRINITRON® COLOR TV

SONY®

SPECIFICATIONS

Television system	American TV standard, NTSC color
Channel coverage	VHF channels 2-13 UHF channels 14-69
Picture tube	5-inch picture measured diagonally, 90-degree deflection
Antenna	VHF / UHF telescopic antenna
Speaker	50 mm round (2 inches), 1 W
Inputs	VIDEO : RCA phono-type 1 Vp-p, 75 ohms AUDIO : RCA phono-type monaural EXT ANT (Combined VHF / UHF 75-ohm, mini-type)
Output	Headphone jack
Power requirements	120 V AC, 60 Hz (AC power adaptor) 12 / 24 V DC
Power consumption	30 W max
Dimensions	Approx. 175 X 152 X 190 mm (w/h/d) (7 X 6 X $7_{1/3}$ inches)
Mass	Approx. 2.4 kg (5 lb 5 oz)
Supplied accessories	AC power adaptor AC-600 (1) Car battery cord (1)
Optional accessories	Connecting cord VMC-920MS

Design and specifications are subject to change without notice.

(CAUTION)
SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!
AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SAFETY CHECK-OUT

After correcting the original service problem, perfom the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recom mend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate;be suspicious of your HV meter if sets always have low HV.
9. Check the antenna temminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers) . Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to usc these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground;the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

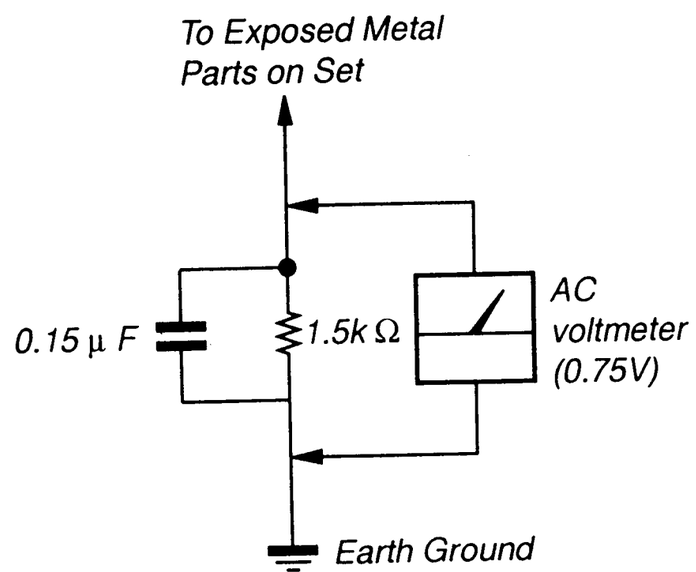


Fig. A. Using an AC voltmeter to check AC leakage.

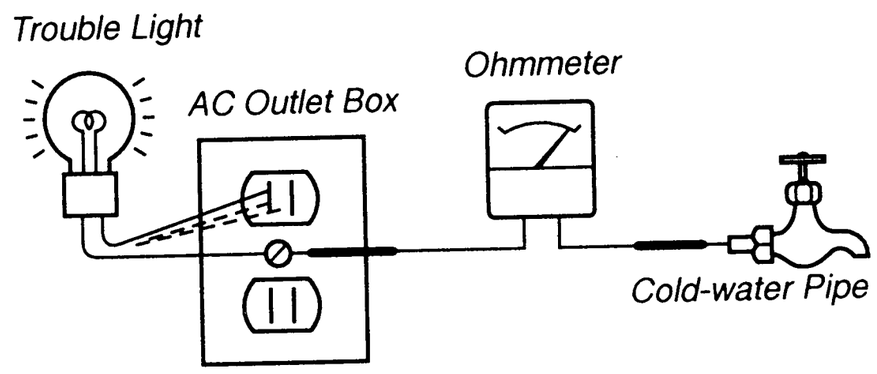


Fig. B. Checking for earth ground.

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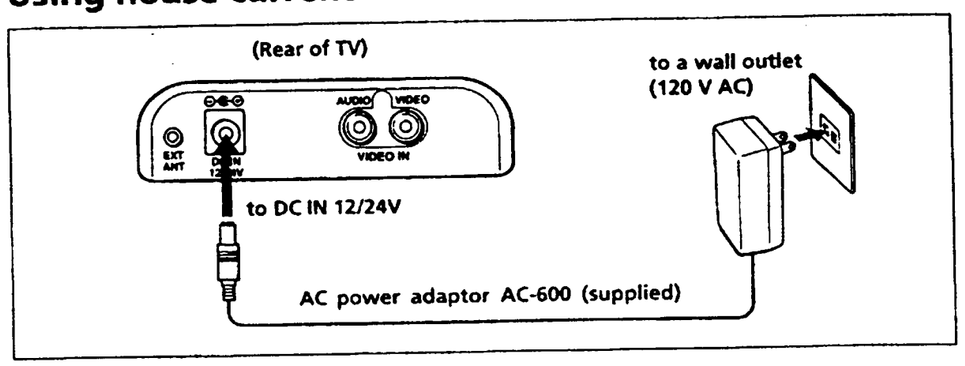
SECTION1
GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

▶ *Getting Started*

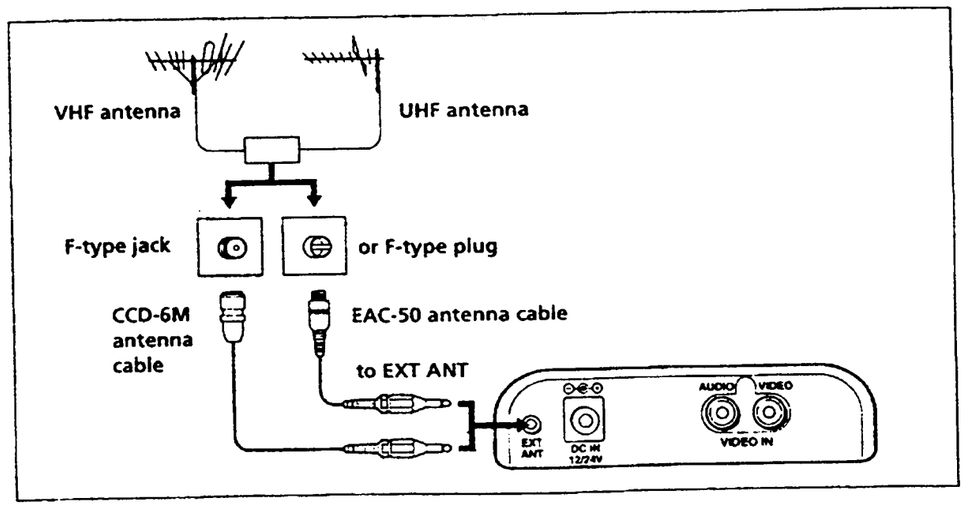
Connections

Using house current



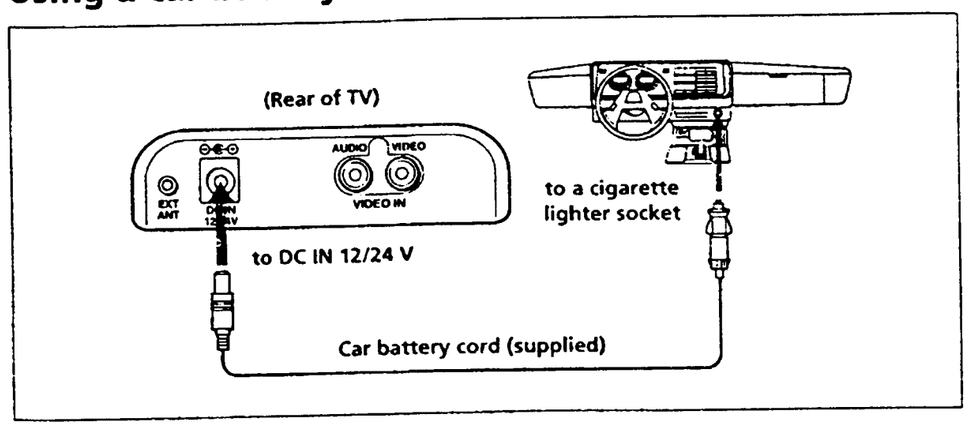
Connecting the outdoor antenna

To connect, use EAC-50 antenna cable (not supplied) for F-type plug or CCD-6M antenna cable (not supplied) for F-type jack.



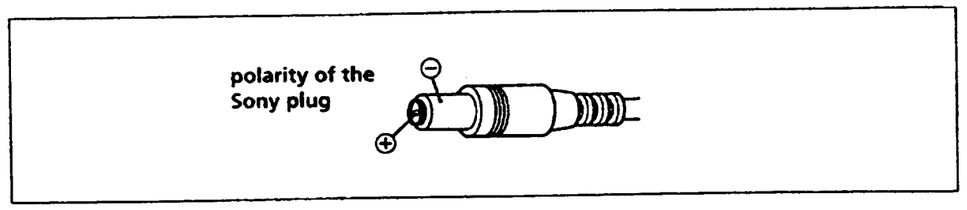
- To connect CCD-6M to the F-type plug, use EAC-40 F-type joint (not supplied).
- If you need to prepare the end of the antenna cable, use EAC-33 antenna connector (not supplied).

Using a car battery



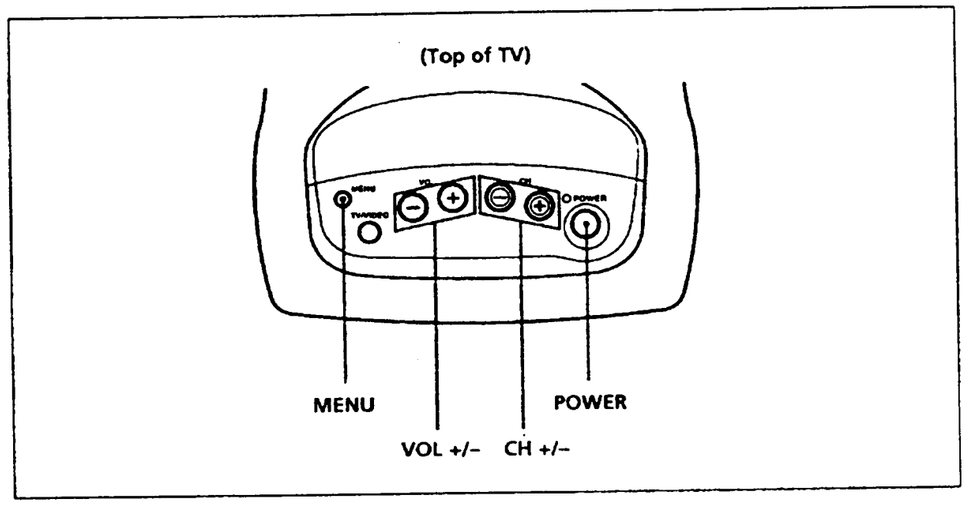
Notes

- For car use, the TV is designed for negative ground 12/24 V DC operation only.
- When you aren't using the TV, remove the car battery cord from the cigarette lighter socket.
- Use only the supplied AC power adaptor or car battery cord manufactured by Sony. Polarity of the plugs of other manufacturers may be different.



Presetting Channels

You can preset TV channels easily: first store all the receivable channels automatically following the procedure below, then erase unnecessary channels or add the channels you want.



1 Press POWER to turn the TV on.

2 Press MENU three times.
The display for presetting appears.

```
PRESS CH TO SELECT
      VOL TO EXECUTE

▸TUNING: SEEK
```

3 Press VOL + or – to select PRESET.

```
PRESS CH TO SELECT
      VOL TO EXECUTE

▸TUNING: PRESET
 AUTO PROGRAM
 ERASE   ADD   SELECT
 2         6   7      13
 ----------|-----------
```

4 Press CH + or – to move the cursor to AUTO PROGRAM and press VOL + or –.

```
PRESS CH TO SELECT
      VOL TO EXECUTE

 TUNING: PRESET
▸AUTO PROGRAM
 ERASE   ADD   SELECT
 2         6   7      13
 ----------|-----------
```

Receivable channels will be preset in numerical sequence. When no more channels can be found, the programing stops and the channel bar shows the lowest channel number.

Channels that can be received on this TV:
VHF: 2-13
UHF: 14-69

Erasing or adding channels

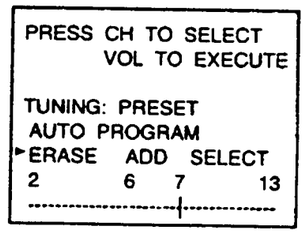
1 Press CH + or – to move the cursor to SELECT.

```
PRESS CH TO SELECT
      VOL TO EXECUTE

 TUNING: PRESET
 AUTO PROGRAM
 ERASE   ADD ▸SELECT
 2         6   7      13
 ----------|-----------
```

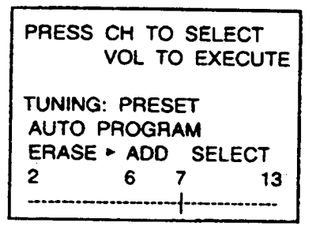
2 Press VOL + or – to move a bar to select the channel to be added.

To erase the channel
Press CH + or – to move the cursor to ERASE and press VOL + or – to execute.



This channel has now been erased from the channel scan memory. The next time you press CH + or –, this channel will be skipped.

To add the channel
Press CH + or – to move the cursor to ADD and press VOL + or – to execute.

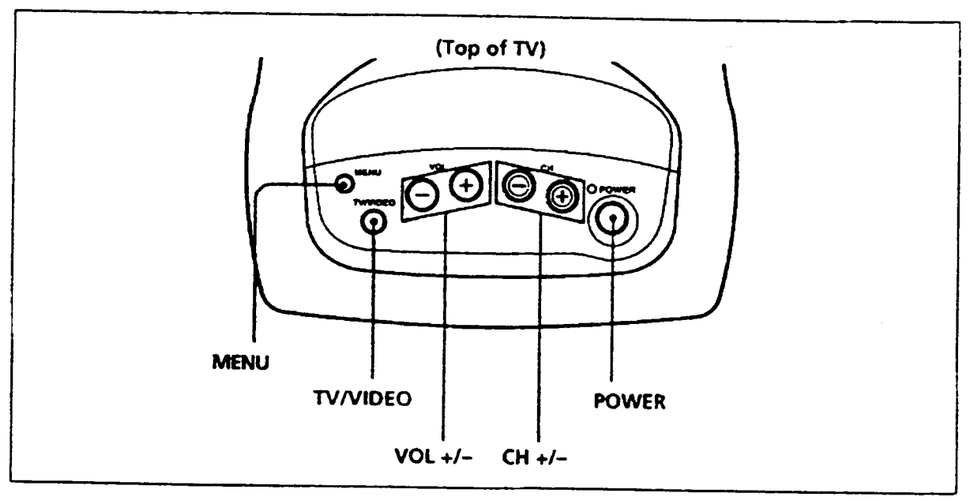


This channel has now been added to the channel scan memory.

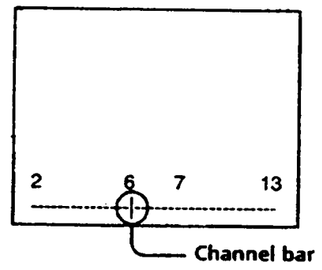
To scan all the channels when you watch the TV
Set TUNING to SEEK.

► Operations

Watching the TV



1 Press POWER to turn the TV on.
If "VIDEO" appears on the screen, press TV/VIDEO so that a channel bar appears.



2 Press CH + or – to select the channel you want to watch.

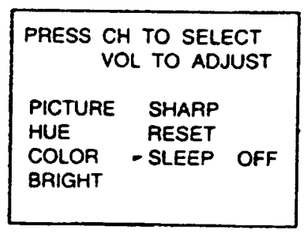
3 Press VOL + or – to adjust the volume.
To increase volume, press "+".
To decrease volume, press "–".

To turn off the TV
Press Power.

Setting the Sleep Timer
You can set the TV to turn off automatically after the length of time you specified elapses.

1 Press MENU twice to display the menu screen.

2 Press CH + or – to move the cursor to SLEEP.



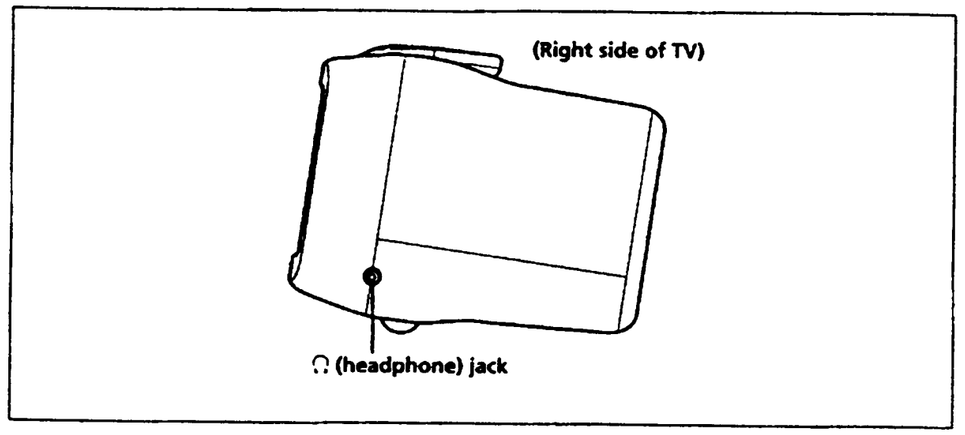
3 Press VOL + repeatedly until the time (minutes) you want appears. Each time you press VOL +, the time changes as follows: 30 ➡ 60 ➡ 90 ➡ OFF. The TV is then set for the length of time you specify and shuts off automatically.

The "SLEEP OFF" display will appear 1 minute before the TV turns off.

To cancel the sleep timer
Press VOL + repeatedly until "OFF" appears.

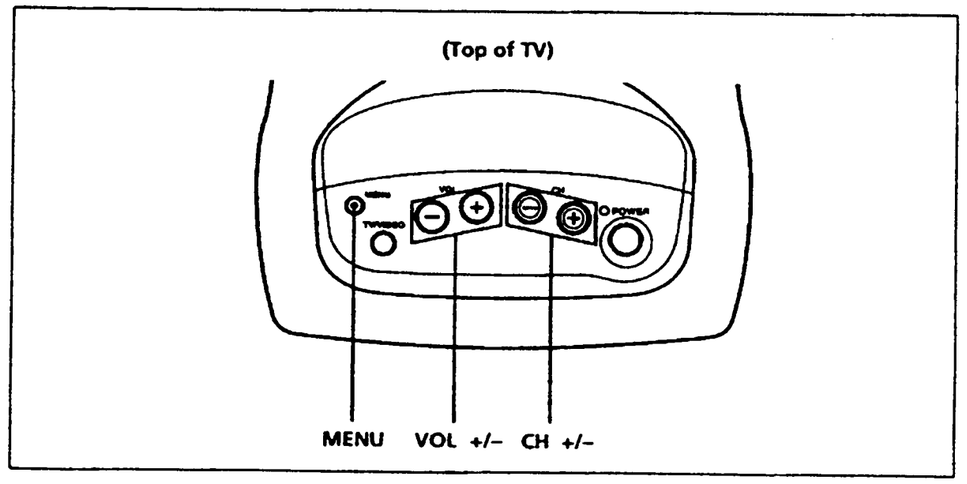
Displaying the input mode
Press MENU. The current input modes (channel bar or VIDEO) will be displayed on the screen for 5 seconds.

Listening with a headphone
You can listen to the TV's sound through an optional headphone connected to a ∩ (headphone) jack.



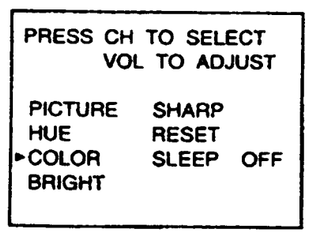
Adjusting the picture

You can adjust the quality of the picture to suit your taste. For details on each item, see "Description of adjustable items" below.

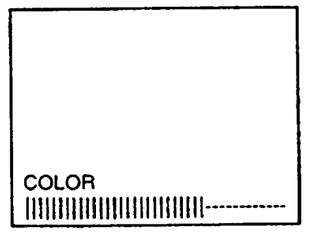


1 Press MENU twice.

2 Press CH + or – to move the cursor to the item you want to adjust (PICTURE, HUE, COLOR, BRIGHT or SHARP).
For example: To adjust color intensity, press CH + or – to select COLOR.



3 Press VOL + or – to adjust the selected item:
Control bar appears.



The control bar disappears 5 seconds after the picture is adjusted and the menu screen appears.

Description of adjustable items

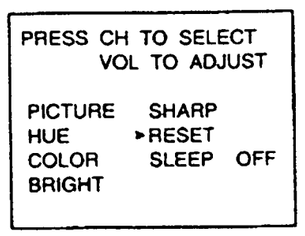
ITEM	Press VOL – to	Press VOL + to
PICTURE	Decrease picture contrast	Increase picture contrast
HUE	Make skin tones become purplish	Make skin tones become greenish
COLOR	Decrease color intensity	Increase color intensity
BRIGHTNESS	Decrease brightness	Increase brightness
SHARPNESS	Soften the picture	Sharpen the picture

To turn the display off
Press MENU until the menu screen is turned off.

To restore the factory preset levels

1 Press MENU twice.

2 Press CH + or – to move the cursor to RESET.

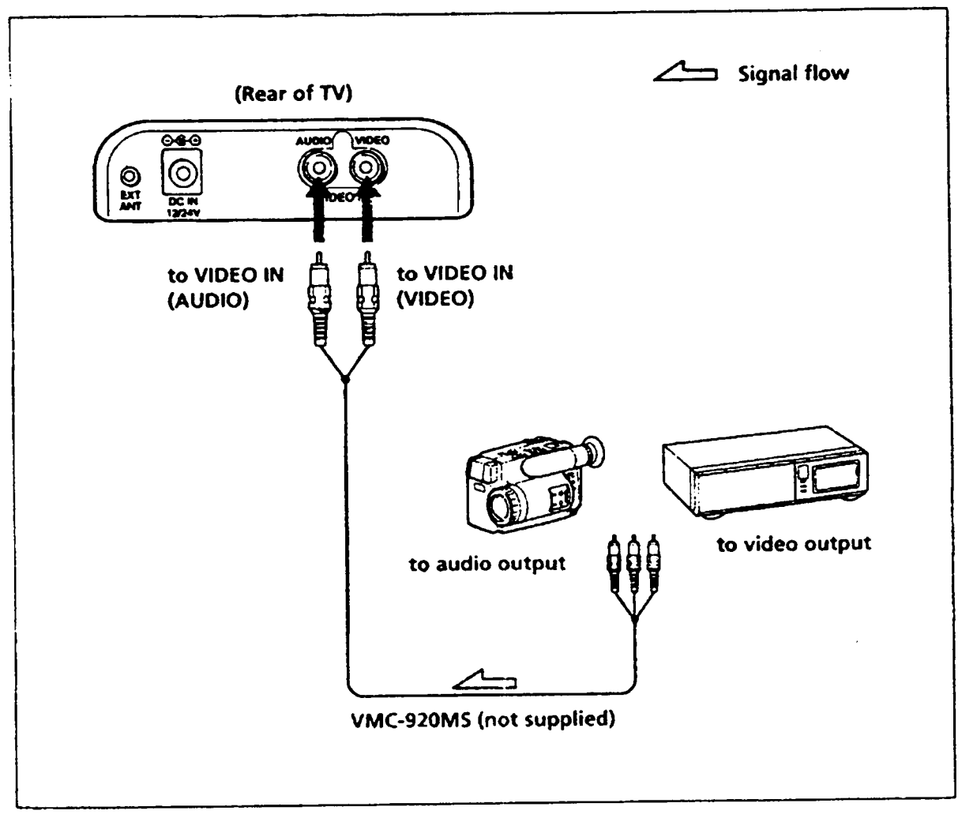


3 Press VOL + or – to restore the all picture settings.

4 Press MENU until the menu screen is turned off.

Connecting Video Equipment

Connecting a VCR or 8mm video camera
Before connecting, turn off the power on all equipment.



Watching a VCR picture

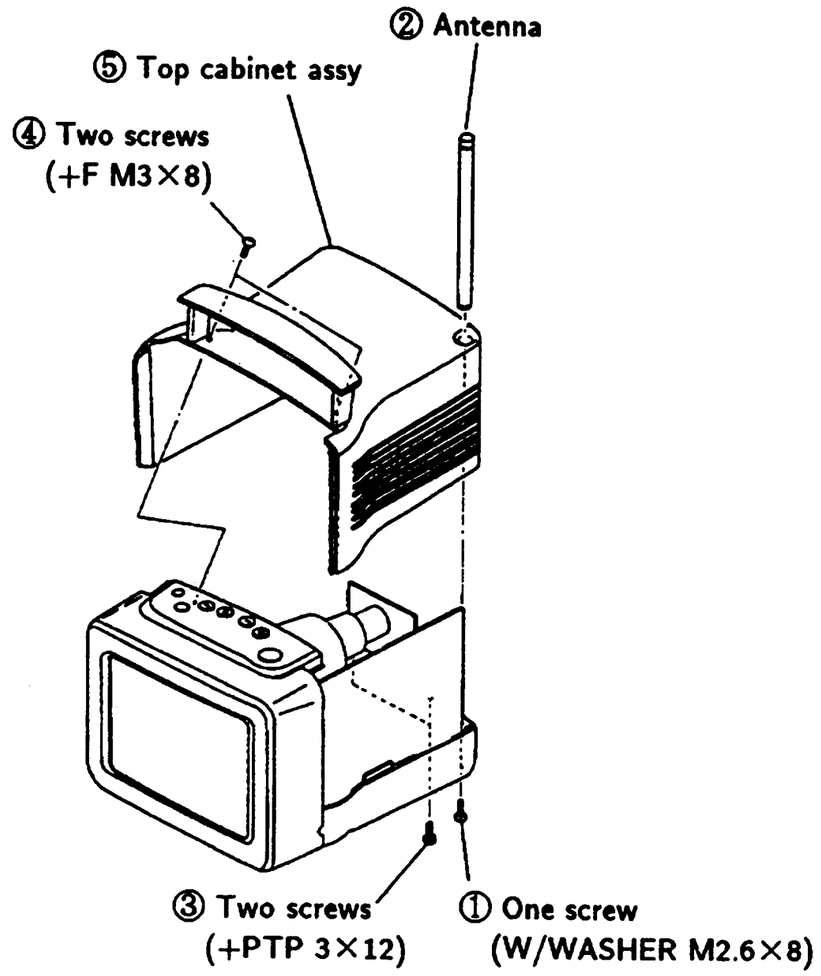
1 Turn on the TV.

2 Press TV/VIDEO so that "VIDEO" appears on the screen.

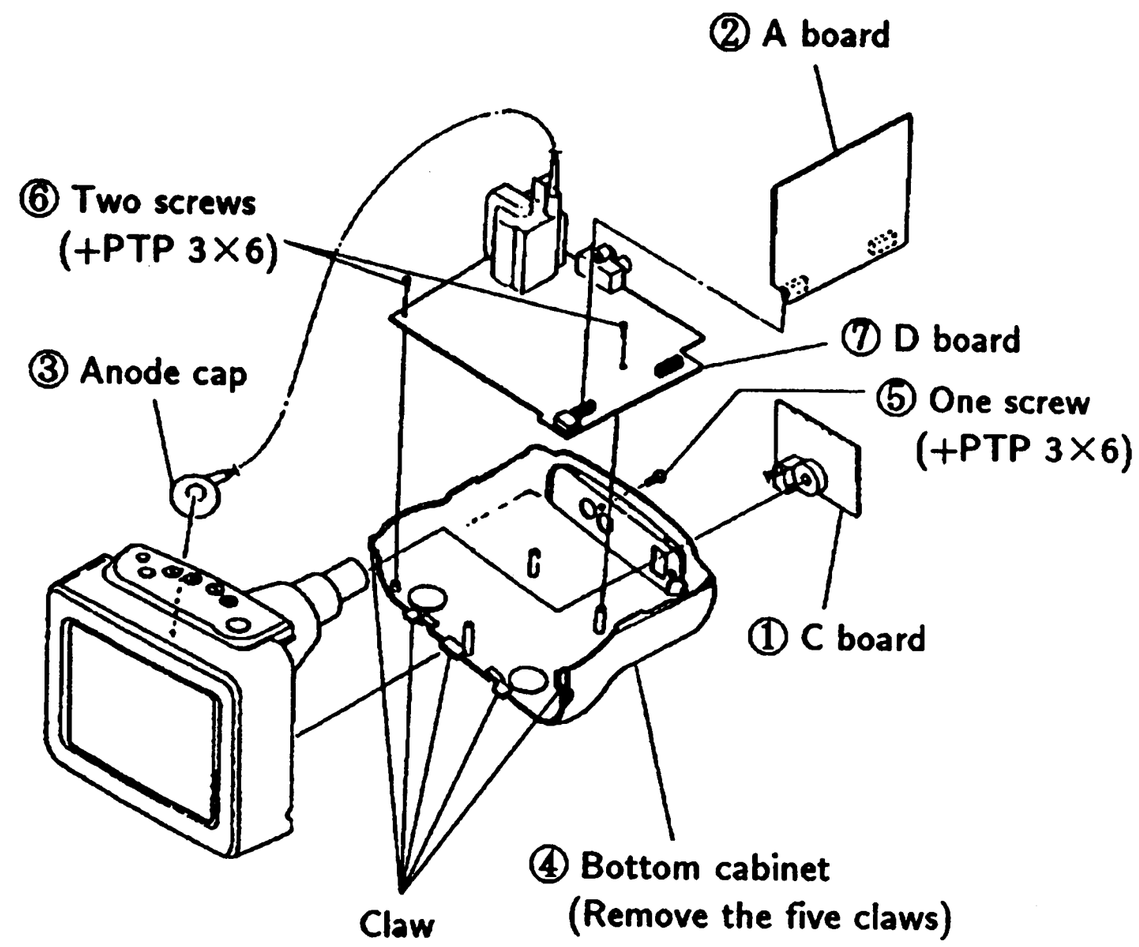
To return to TV mode
Press TV/VIDEO so that a channel bar appears on the screen.

SECTION 2
DISASSEMBLY

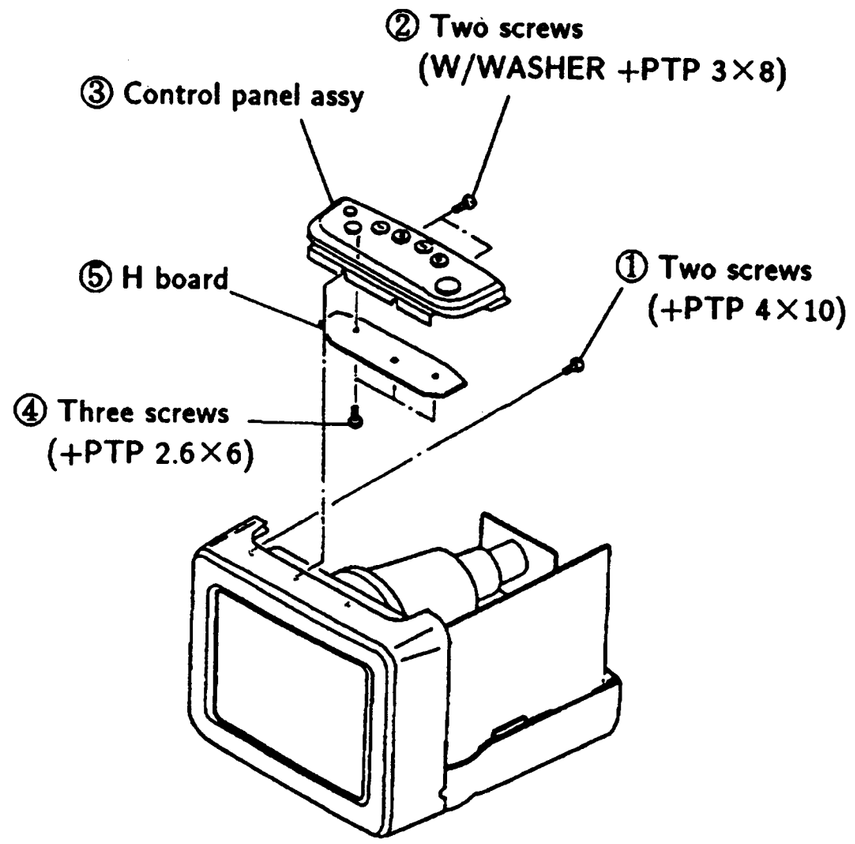
2-1. TOP CABINET ASSY REMOVAL



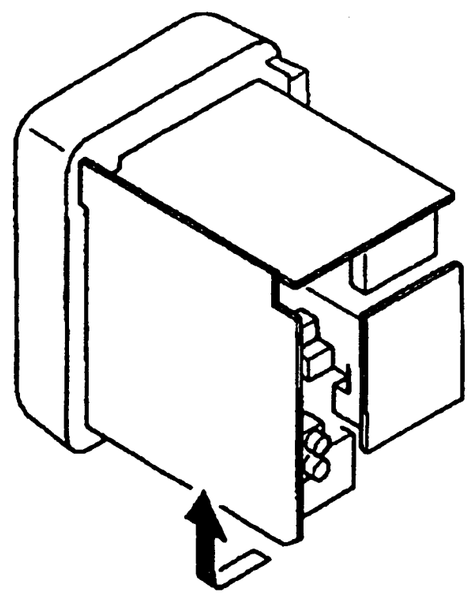
2-2. D BOARD REMOVAL



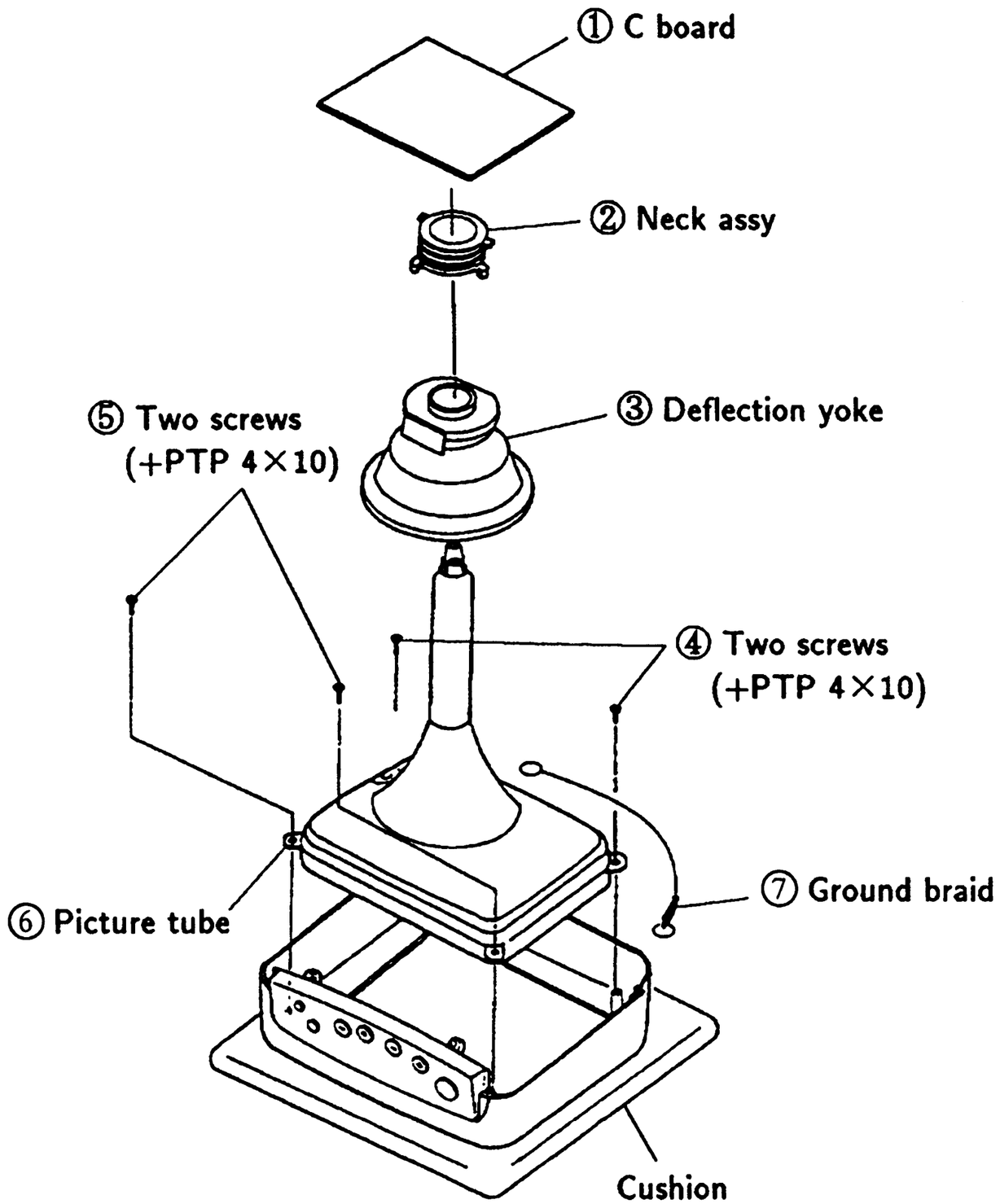
2-3. H BOARD REMOVAL



2-4. SERVICE POSITION



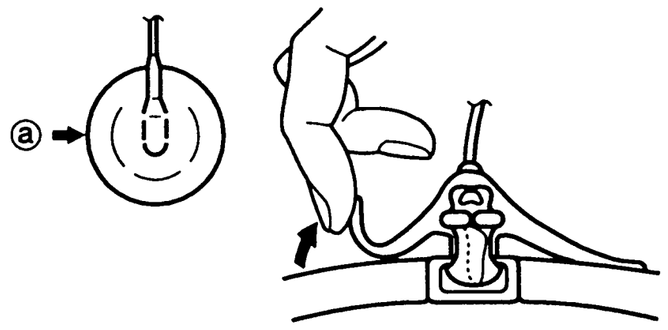
2-5. PICTURE TUBE REMOVAL



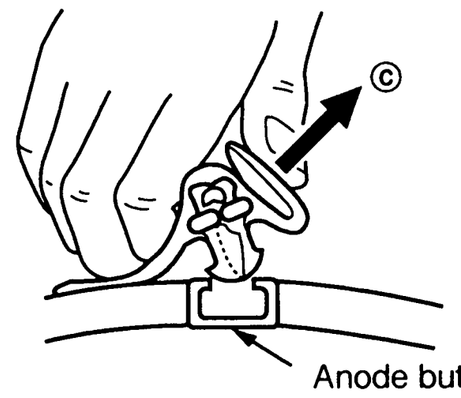
• REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis. CRT chield or carbon painted on the CRT, after removing the anode.

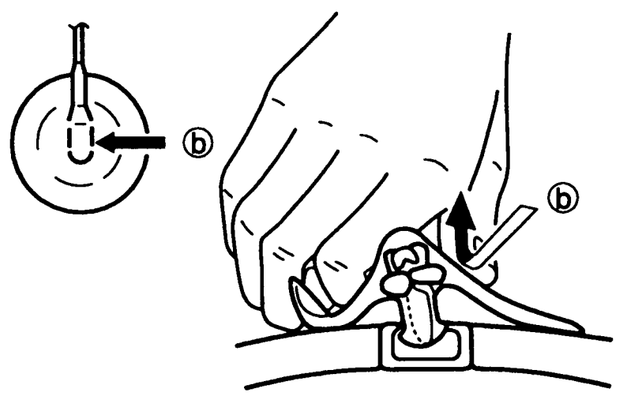
•REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be romoved by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.



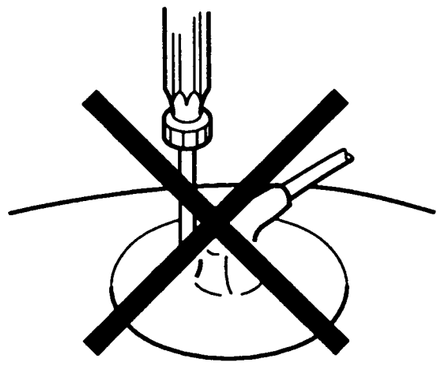
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

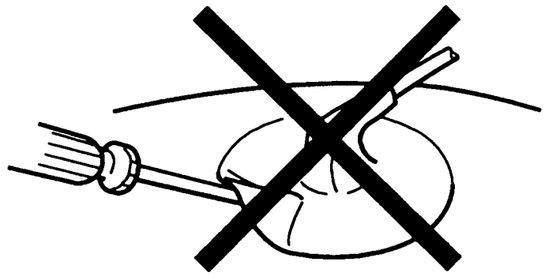
•HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material!

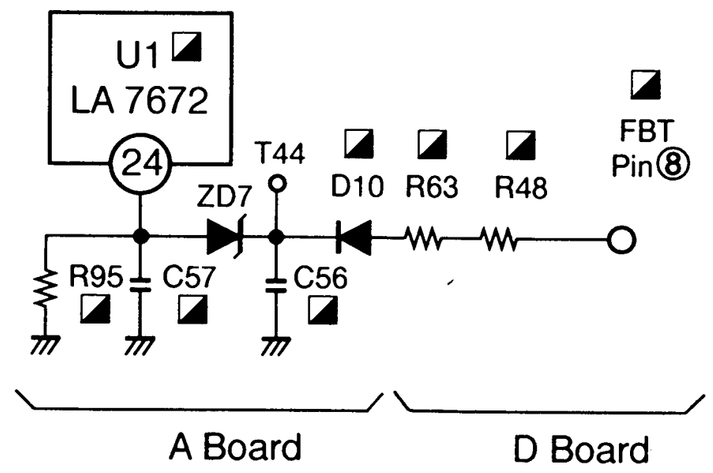
② Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.

③ Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3
SAFETY RELATED ADJUSTMENTS

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
HOLD-DOWN CONFIRMATION AND READJUSTMENT The following adjustment should be performed when replacing the following components. Marked with *◪ on the schematic diagram.		*◪ marked parts U1, D10, ZD7, C56, C57, R95 (A board) U101, U102, Q110, ZD103, ZD106, R63, R48, R116, R117, R132, T1, T2 (D board)		
1. Set *the power source to *120 ± 5 V AC. 2. Set the PICTURE and BRIGHTNESS controls to *adjustment. 3. Receive a *signal. 4. Confirm that of *TP is *DC voltage. 5. Next, apply external *voltage to *TP and confirm that it hold down. 6. When step 5 is not satisfied, readjustment should be performed by altering the components value. (A and D boards marked with ◪)	*AC Power Adaptor *color-bar signal	 *T44 *T44	 *PICTURE BRIGHTNESS } .....maximum	*120 ± 5 V AC *16 V DC *25 V DC
+B VOLTAGE CONFIRMATION Confirm that cathode side of *diode is *41 ± 1.0 V DC.		*D114		*41 ± 1.0 V DC

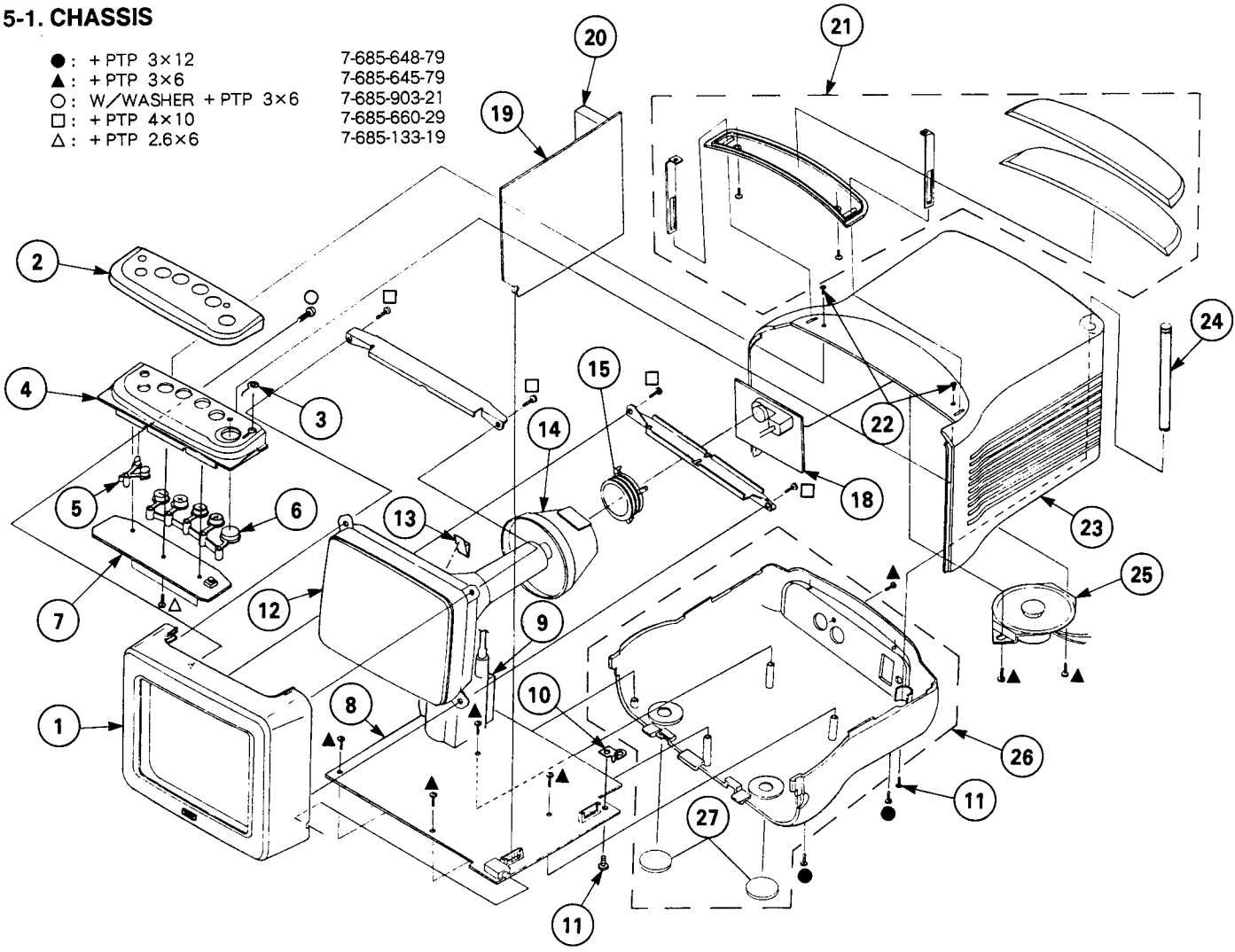
SECTION 5
EXPLODED VIEWS

NOTE :
- Items with on part number and on description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

5-1. CHASSIS

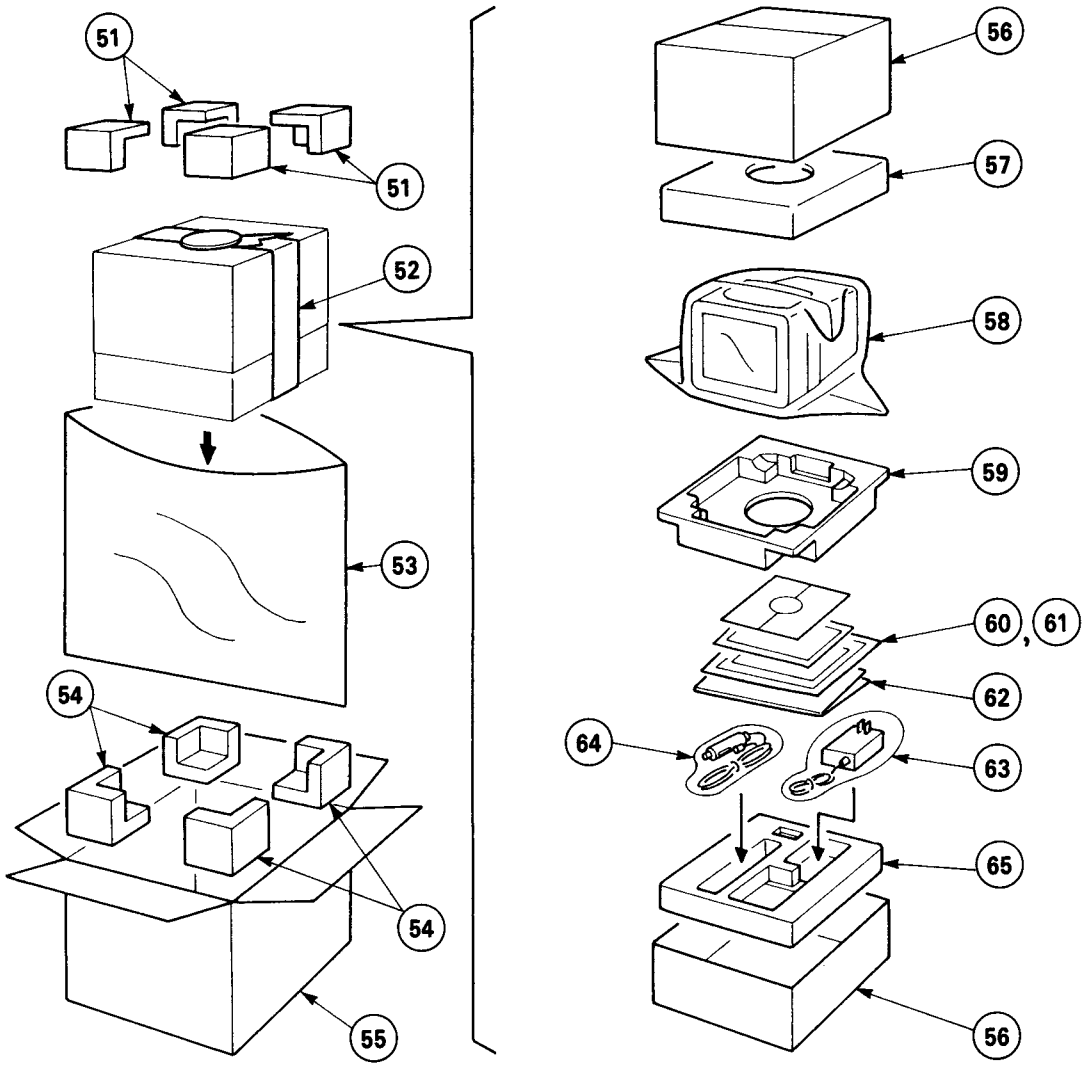
●: + PTP 3×12	7-685-648-79
▲: + PTP 3×6	7-685-645-79
○: W/WASHER + PTP 3×6	7-685-903-21
□: + PTP 4×10	7-685-660-29
△: + PTP 2.6×6	7-685-133-19



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	9-909-470-01	BEZEL SUB ASSY	
2	9-909-455-01	ALUMINUM CAP FOR CONTROL PANEL	
3	9-909-454-01	CONTACT SPRING	
4	9-909-456-01	CONTROL PANEL-A (25TH)	
5	9-909-463-01	FUNCTION KEY-B (25TH)	
6	9-909-457-01	FUNCTION KEY-A (25TH)	
7	*9-909-450-01	H BOARD, COMPLETE	
8	*9-909-417-01	D BOARD, COMPLETE	
9	9-909-428-01	FBT EFFI-01 SAMPO	
10	9-909-464-01	ANTENA CONTACT PLATE	
11	9-909-461-01	SCR M2.6×3 W/WASHER SPCC NI	
12	8-738-658-05	PICTURE TUBE (A13LDS00X)	
13	2-161-889-02	YORK SPACER	
14	8-451-454-11	DEFLECTION YORK (Y06JSA2K)	

REF. NO.	PART NO.	DESCRIPTION	REMARK
15	1-452-749-11	NECK ASSY (NA-201)	
18	*9-909-414-01	C BOARD, COMPLETE	
19	*9-909-430-01	A BOARD, COMPLETE	
20	9-909-439-01	TUNER TUHUF3U-291 MURATA	
21	9-909-471-01	HANDLE ASSY	
22	9-909-462-01	SCR M3×8 F+ SPCC ZMC3	
23	9-909-473-01	TOP CABNET SUB ASSY	
24	9-909-465-01	ANTENA	
25	9-909-460-01	SPEAKER 8 OHM 1W 1.5"	
26	9-909-472-01	BOTTOM CABINET SUB ASSY	
27	9-909-466-01	RUBBER FOOT	
28	4-039-836-11	EMBLEM, SONY	

5-2. PACKING



REF. NO.	PART NO.	DESCRIPTION	REMARK
51	4-046-879-01	CUSHION (UPPER) (ASSY), CORNER	
52	4-046-910-01	MEDAL (ASSY)	
53	4-854-939-01	BAG, PROTECTION (600×700)	
54	4-046-880-01	CUSHION (LOWER) (ASSY), CORNER	
55	4-046-878-01	INDIVIDUAL CARTON (B)	
56	4-046-804-01	INDIVIDUAL CARTON (A)	
57	4-046-831-01	CUSHION (UPPER)	
58	4-916-519-01	BAG (SP), PROTECTION (400×400)	
59	4-046-832-01	CUSHION (LOWER)	
60	3-759-696-21	INSTRUCTION MANUAL	
61	9-909-467-01	ANTENA CONNECTOR	
62	4-046-803-01	CARDBOARD	
63	9-909-469-01	AC ADAPTOR	
64	⚠9-909-468-01	CAR BATTERY CORD	
65	4-046-833-01	CUSHION, ACCESSORY	

SECTION 6
ELECTRICAL PARTS LIST

C D

NOTE :

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

RESISTORS
- All resistors are in ohms.
- F : nonflammable

REF.NO.	PART NO.	DESCRIPTION		REMARK
	*9-909-414-01	C BOARD, COMPLETE		
		**********		
		<CAPACITOR>		
C1	1-107-473-11	CERAMIC	220PF 50V	
C2	1-107-473-11	CERAMIC	220PF 50V	
C3	1-107-473-11	CERAMIC	220PF 50V	
C4	1-162-114-00	CERAMIC	4700PF 2KV	
C5	1-161-830-00	CERAMIC	4700PF 500V	
C6	1-126-542-11	ELECT	4.7MF 160V	
C7	1-107-444-11	CERAMIC	100PF 2K	
		<CONNECTOR>		
CN1	9-933-682-01	CONNECTOR MALE 2P		
CN2	9-909-415-01	CONNECTOR MALE 4P		
CN3	1-526-958-71	SOCKET, PICTURE TUBE 9P		
CN4	9-933-683-01	CONNECTOR MALE 3P		
		<COIL>		
L1	1-408-080-00	INDUCTOR	100UH	
		<TRANSISTOR>		
Q1	8-729-021-73	TRANSISTOR	2SC2229	
Q2	8-729-021-73	TRANSISTOR	2SC2229	
Q3	8-729-021-73	TRANSISTOR	2SC2229	
		<RESISTOR>		
R1	1-249-419-11	CARBON	1.5K 1/4W	
R2	1-249-419-11	CARBON	1.5K 1/4W	
R3	1-249-420-11	CARBON	1.8K 1/4W	
R4	1-249-413-11	CARBON	470 1/4W	
R5	1-249-421-11	CARBON	2.2K 1/4W	
R6	1-249-421-11	CARBON	2.2K 1/4W	
R7	1-216-463-00	METAL FILM	12K 2W	
R8	1-216-463-00	METAL FILM	12K 2W	
R9	1-216-463-00	METAL FILM	12K 2W	
R10	1-249-405-11	CARBON	100 1/4W	
R11	1-249-405-11	CARBON	100 1/4W	
R12	1-249-421-11	CARBON	2.2K 1/4W	
R13	1-249-411-11	CARBON	330 1/4W	
R14	1-249-411-11	CARBON	330 1/4W	
R15	1-249-405-11	CARBON	100 1/4W	
R16	1-202-838-00	SOLID	100K 1/2W	
R17	1-202-719-00	SOLID	1M 1/2W	

REF.NO.	PART NO.	DESCRIPTION		REMARK
		<VARIABLE RESISTOR>		
VR1	⚠1-238-076-11	RES, ADJ, METAL GLAZE 4.7K		
VR2	1-238-076-11	RES, ADJ, METAL GLAZE 4.7K		
VR3	⚠1-238-076-11	RES, ADJ, METAL GLAZE 4.7K		
VR4	1-230-494-11	RES, ADJ, METAL GLAZE 1K		
VR5	1-230-494-11	RES, ADJ, METAL GLAZE 1K		
**********				
	*9-909-417-01	D BOARD, COMPLETE		
		**********		
	2-832-002-00	BUSHING F-1, INSULATOR		
	4-875-726-11	SHEET, INSULATING		
	7-684-023-04	NAT 3×2.5		
	7-684-023-04	NAT M3		
	7-682-148-15	SCREW +P 3×8		
	7-682-548-09	SCREW 3×8		
		<CAPACITOR>		
C8	1-126-801-11	ELECT	1MF	50V
C10	1-137-370-11	FILM	0.01MF	50V
C11	1-102-129-00	CERAMIC	0.01MF	50V
C14	1-126-804-11	ELECT	100MF	50V
C24	1-126-801-11	ELECT	1MF	50V
C25	⚠1-104-615-11	ELECT	680MF	16V
C27	⚠1-126-804-11	ELECT	100MF	50V
C28	1-102-947-00	CERAMIC	10PF	50V
C29	9-909-424-01	FILM	0.1MF	200V
C30	⚠1-129-719-00	FILM	0.027MF	630V
C31	⚠1-104-589-11	FILM	1.8MF	160V
C32	9-933-684-01	CERAMIC	330PF	500V
C34	1-136-620-11	FILM	0.047MF	50V
C35	⚠1-124-340-00	ELECT	22MF	200V
C36	1-104-798-11	ELECT	4.7MF	100V
C37	1-102-125-00	CERAMIC	4700PF	50V
C38	⚠1-124-667-11	ELECT	10MF	100V
C40	1-126-336-11	ELECT	220MF	25V
C42	⚠1-104-798-11	ELECT	4.7MF	100V
C43	1-124-525-11	ELECT	1000MF	25V
C44	1-126-801-11	ELECT	1MF	50V
C45	⚠1-104-793-51	ELECT	470MF	50V
C46	1-137-399-11	FILM	0.1MF	100V
C101	⚠1-126-800-51	ELECT	2200MF	35V
C102	⚠1-126-804-11	ELECT	100MF	50V
C103	1-102-125-00	CERAMIC	4700PF	50V
C105	1-126-375-11	ELECT	100MF	25V
C106	1-161-059-00	CERAMIC	0.047MF	50V

D

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION		REMARK
C107	1-102-074-00	CERAMIC	1000PF	50V
C108	1-126-337-11	ELECT	22MF	63V
C109	1-126-967-11	ELECT	47MF	50V
C110	1-126-804-11	ELECT	100MF	50V
C111	1-107-473-11	CERAMIC	220PF	50V
C113	⚠1-126-104-11	ELECT	470MF	35V
C114	⚠1-126-951-11	ELECT	470MF	50V
C116	1-126-935-11	ELECT	470MF	16V
C117	1-126-336-11	ELECT	220MF	25V
C118	1-136-559-11	FILM	4700PF	630V
C119	1-161-063-00	CERAMIC	0.1MF	50V
C120	1-136-187-00	FILM	0.047MF	250V
C121	1-107-473-11	CERAMIC	220PF	50V
C122	1-107-473-11	CERAMIC	220PF	50V
C123	1-107-473-11	CERAMIC	220PF	50V
C124	1-161-057-00	CERAMIC	0.033MF	50V
C125	1-136-187-00	FILM	0.047MF	250V
C126	1-161-063-00	CERAMIC	0.1MF	50V
C127	1-124-123-00	ELECT	100MF	16V
C128	1-126-142-11	ELECT	100MF	35V
		<CONNECTOR>		
CN1	9-909-421-01	PLUG, CONNECTOR 11P		
CN2	9-909-421-01	PLUG, CONNECTOR 11P		
CN3	9-933-861-01	HARNESS 3P		
CN5	9-933-686-01	RCA JACK		
CN6	9-909-425-01	TERMINAL CONNECTOR 4P		
CN7	9-933-687-01	PLUG CONNECTOR 2P		
		<IC LINK>		
CPE	1-532-984-11	LINK IC 2A		
		<DIODE>		
D10	8-719-200-02	DIODE	10E-2	
D12	8-719-945-80	DIODE	ERC06-15S	
D13	8-719-945-80	DIODE	ERC06-15S	
D14	8-719-979-85	DIODE	RGP20G	
D15	8-719-200-02	DIODE	10E-2	
D101	8-719-107-94	DIODE	1SS202-1	
D102	8-719-107-94	DIODE	1SS202-1	
D103	8-719-107-94	DIODE	1SS202-1	
D105	8-719-107-94	DIODE	1SS202-1	
D106	9-933-862-01	DIODE	FR304/FR3004	
D107	9-933-863-01	DIODE	FR202/PR2003	
D108	9-909-418-01	DIODE	SR160	
D109	8-719-107-94	DIODE	1SS202-1	
D110	8-719-107-94	DIODE	1SS202-1	
D111	8-719-107-94	DIODE	1SS202-1	
D112	9-933-691-01	DIODE	SR140	
D113	8-719-107-94	DIODE	1SS202-1	
D114	8-719-107-94	DIODE	1SS202-1	
D115	8-719-107-94	DIODE	1SS202-1	
ZD1	8-719-110-33	DIODE	RD12ES-B3	
ZD101	8-719-991-93	DIODE	HZ9A3	
ZD102	8-719-110-83	DIODE	RD36ES-B2	
ZD103	8-719-110-33	DIODE	RD12ES-B3	

REF.NO.	PART NO.	DESCRIPTION		REMARK
ZD104	8-719-930-61	DIODE	HZ30-1	
ZD105	8-719-110-17	DIODE	RD10ES-B2	
ZD106	8-719-910-62	DIODE	HZ6A2L	
ZD107	8-719-109-85	DIODE	RD5.1ES-B2	
ZD111	8-719-109-97	DIODE	RD6.8ES-B2	
ZD112	8-719-930-61	DIODE	HZ30-1	
ZD113	8-719-906-53	DIODE	HZ15-3	
		<IC>		
U101	8-759-991-02	IC	NE-555P	
U102	8-759-908-15	IC	TL431CLP	
U103	8-759-708-05	IC	NJM78L05A	
U1	8-759-045-23	IC	LA7838	
		<JACK>		
JK1	9-909-419-01	MONO PHONE JACK		
JK2	1-750-523-11	DC POWER JACK 6A 2P		
JK4	9-909-420-01	STEREO JACK 7P		
		<COIL>		
L5	9-909-427-01	LINEAR		
L101	9-933-864-01	PEAKING COIL 1UH		
L102	9-933-865-01	PEAKING COIL		
L103	1-408-082-00	INDUCTOR 120UH		
L104	1-408-082-00	INDUCTOR 120UH		
L105	1-408-082-00	CHOKE 33UH		
L106	1-410-397-21	FERRITE BEAD INDUCTOR		
L107	1-410-397-21	FERRITE BEAD INDUCTOR		
		<TRANSISTOR>		
Q15	9-933-866-01	TRANSISTOR	2SC4161	
Q16	8-729-201-53	TRANSISTOR	2SA1015-GR	
Q17	8-729-201-53	TRANSISTOR	2SA1015-GR	
Q18	8-729-322-14	TRANSISTOR	2SD467C	
Q19	8-729-111-55	TRANSISTOR	2SD1312K	
Q102	8-729-201-53	TRANSISTOR	2SA1015-GR	
Q103	8-729-201-53	TRANSISTOR	2SA1015-GR	
Q104	8-729-281-53	TRANSISTOR	2SC1815-GR	
Q105	8-729-281-53	TRANSISTOR	2SA1815-GR	
Q106	8-729-906-95	TRANSISTOR	2SD2016	
Q107	8-729-281-53	TRANSISTOR	2SC1815-GR	
Q108	8-729-322-14	TRANSISTOR	2SD467C	
Q110	⚠9-909-423-01	TRANSISTOR	50N05E	
Q114	8-729-141-89	TRANSISTOR	2SD1585-K	
Q115	8-729-322-14	TRANSISTOR	2SD467C	
		<RESISTOR>		
R17	1-260-098-00	CARBON	820	1/2W
R22	1-249-437-11	CARBON	47K	1/4W
R33	1-247-704-11	CARBON	220	1/4W
R34	1-249-420-11	CARBON	1.8K	1/4W
R35	1-249-436-11	CARBON	39K	1/4W
R36	1-247-866-11	CARBON	30K	1/4W
R37	1-247-852-11	CARBON	7.5K	1/4W
R38	1-249-435-11	CARBON	33K	1/4W
R39	1-260-334-11	CARBON	3.3	1/2W
R40	1-249-422-11	CARBON	2.7K	1/4W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

D A

REF. NO.	PART NO.	DESCRIPTION		REMARK
R41	1-249-409-11	CARBON	220	1/4W
R42	1-247-706-11	CARBON	330	1/4W
R43	1-247-713-11	CARBON	1K	1/4W
R44	9-933-694-01	CARBON	1.5	1/2W
R45	1-249-428-11	CARBON	8.2K	1/4W
R47	1-247-892-11	CARBON	360K	1/4W
R48	9-933-695-01	CARBON	1.8	1/2W
R49	1-247-713-11	CARBON	1K	1/4W
R50	1-247-840-00	CARBON	2.4K	1/4W
R51	9-933-696-01	CARBON	750	1W
R52	1-249-461-11	CARBON	18K	1/4W
R53	1-249-421-11	CARBON	2.2K	1/4W
R54	1-247-840-00	CARBON	2.4K	1/4W
R55	9-933-697-01	METAL OXIDE	150	1/2W
R56	1-247-811-31	CARBON	150	1/4W
R58	1-249-411-11	CARBON	330	1/4W
R59	1-247-854-11	CARBON	9.1K	1/4W
R60	1-249-437-11	CARBON	47K	1/4W
R61	1-249-433-11	CARBON	22K	1/4W
R62	⚠1-249-429-11	CARBON	10K	1/4W
R63	1-249-400-11	CARBON	39	1/4W
R64	1-247-881-00	CARBON	120K	1/4W
R101	1-249-434-11	CARBON	27K	1/4W
R102	1-249-435-11	CARBON	33K	1/4W
R103	1-247-885-00	CARBON	180K	1/4W
R104	1-249-429-11	CARBON	10K	1/4W
R105	⚠1-249-437-11	CARBON	47K	1/4W
R106	1-249-430-11	CARBON	12K	1/4W
R107	1-247-842-11	CARBON	3K	1/4W
R108	1-249-425-11	CARBON	4.7K	1/4W
R109	1-249-439-11	CARBON	68K	1/4W
R110	1-249-419-11	CARBON	1.5K	1/4W
R111	1-249-433-11	CARBON	22K	1/4W
R112	1-249-422-11	CARBON	2.7K	1/4W
R113	1-249-417-11	CARBON	1K	1/4W
R114	1-249-422-11	CARBON	2.7K	1/4W
R115	1-249-438-11	CARBON	56K	1/4W
R116	1-249-430-11	CARBON	12K	1/4W
R117	1-249-419-11	CARBON	1.5K	1/4W
R118	1-249-410-11	CARBON	270	1/4W
R119	1-247-838-00	CARBON	2K	1/4W
R120	1-249-430-11	CARBON	12K	1/4W
R121	1-249-434-11	CARBON	27K	1/4W
R125	1-249-397-11	CARBON	22	1/4W
R126	1-247-842-11	CARBON	3K	1/4W
R130	1-249-423-11	CARBON	3.3K	1/4W
R131	1-247-838-00	CARBON	2K	1/4W
R132	9-933-698-01	CARBON	22	1/4W
R133	1-249-395-11	CARBON	15	1/4W
R134	1-249-425-11	CARBON	4.7K	1/4W
R135	1-249-415-11	CARBON	680	1/4W
R136	1-249-415-11	CARBON	680	1/4W
		<TRANSFORMER>		
T1	9-909-422-01	TRANSFORMER 15UH		
T2	⚠9-909-428-01	TRANSFORMER, FLYBACK		
T3	9-909-429-01	DRIVER TRANSFORMER 4:1		
		<VARIABLE RESISTOR>		
VR1	⚠1-228-996-00	RES, ADJ, METAL 47K		
VR2	1-228-991-00	RES, ADJ, METAL 2.2K		
VR3	⚠1-228-993-00	RES, ADJ, METAL 4.7K		
VR4	9-933-700-01	RES, ADJ, METAL 2K		
VR5	1-228-995-00	RES, ADJ, METAL 22K		

****

*9-909-430-01 A BOARD, COMPLETE
****

<CAPACITOR>

C1	1-163-251-11	CERAMIC CHIP	100PF	50V
C2	1-163-251-11	CERAMIC CHIP	100PF	50V
C3	1-135-199-21	TANTALUM CHIP	1MF	16V
C4	1-135-237-11	TANTALUM CHIP	2.2MF	16V
C5	1-163-227-11	CERAMIC CHIP	10PF	50V
C6	1-135-199-21	TANTALUM CHIP	1MF	16V
C7	1-126-964-11	ELECT	10MF	50V
C8	1-163-116-11	CERAMIC CHIP	91PF	50V
C9	1-163-104-00	CERAMIC CHIP	30PF	50V
C10	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C11	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C12	1-126-964-11	ELECT	10MF	50V
C13	1-135-199-21	TANTALUM CHIP	1MF	16V
C14	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C15	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C16	1-126-964-11	ELECT	10MF	16V
C17	1-126-964-11	ELECT	10MF	16V
C18	1-163-099-00	CERAMIC CHIP	18PF	50V
C19	1-163-141-00	CERAMIC CHIP	1000PF	50V
C20	1-163-141-00	CERAMIC CHIP	1000PF	50V
C21	1-163-109-00	CERAMIC CHIP	47PF	50V
C22	1-164-005-11	CERAMIC CHIP	0.47MF	25V
C23	1-163-116-00	CERAMIC CHIP	91PF	50V
C24	1-135-199-21	CERAMIC CHIP	1MF	16V
C25	1-163-135-00	CERAMIC CHIP	560PF	50V
C26	1-135-155-21	TANTALUM CHIP	4.7MF	16V
C27	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C28	1-104-329-11	CERAMIC CHIP	0.1MF	50V
C29	1-164-161-11	CERAMIC CHIP	2200PF	50V
C31	1-135-155-21	TANTALUM CHIP	4.7MF	16V
C32	1-126-964-11	ELECT	10MF	50V
C33	1-126-964-11	ELECT	10MF	50V
C35	1-164-005-11	CERAMIC CHIP	0.47MF	25V
C36	1-126-964-11	ELECT	10MF	16V
C37	1-126-964-11	ELECT	10MF	50V
C38	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C39	1-124-916-11	ELECT	22MF	63V
C43	1-163-107-00	CERAMIC CHIP	39PF	50V
C44	1-126-964-11	ELECT	10MF	16V
C46	1-135-199-21	TANTALUM CHIP	1MF	16V
C48	1-126-964-11	ELECT	10MF	16V
C49	9-933-701-11	ELECT	47MF	16V

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REF. NO.	PART NO.	DESCRIPTION		REMARK
C50	1-163-109-00	CERAMIC CHIP	47PF	50V
C51	1-126-933-11	ELECT	100MF	16V
C52	1-163-098-00	CERAMIC CHIP	16PF	50V
C53	1-126-933-11	ELECT	100MF	16V
C54	1-163-107-00	CERAMIC CHIP	39PF	50V
C55	1-163-135-00	CERAMIC CHIP	560PF	50V
C56	1-126-964-11	ELECT	10MF	16V
C57	1-104-329-11	CERAMIC CHIP	0.1MF	50V
C58	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C59	1-163-034-11	CERAMIC CHIP	0.033MF	50V
C60	1-163-034-11	CERAMIC CHIP	0.033MF	50V
C61	1-135-237-11	TANTALUM CHIP	2.2MF	16V
C62	1-163-141-00	CERAMIC CHIP	1000PF	50V
C65	1-164-695-11	CERAMIC CHIP	2200PF	50V
C66	1-164-695-11	CERAMIC CHIP	2200PF	50V
C67	1-164-695-11	CERAMIC CHIP	2200PF	50V
C71	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C72	1-104-666-11	ELECT	220MF	25V
C73	1-128-320-11	ELECT	2200MF	16V
C74	1-126-964-11	ELECT	10uF	16V
C75	1-126-964-11	ELECT	10MF	16V
C77	1-104-329-11	CERAMIC CHIP	0.1MF	50V
C78	1-104-760-11	CERAMIC CHIP	0.047MF	50V
C79	1-135-237-11	TANTAL CHIP	2.2MF	16V
C80	1-124-916-11	ELECT	22MF	63V
C81	1-104-804-51	ELECT	1MF	160V
C84	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C86	1-126-933-11	ELECT	100MF	16V
C87	1-135-199-21	TANTALUM CHIP	1MF	16V
C90	1-163-099-00	CERAMIC CHIP	18PF	50V
C92	1-135-237-11	TANTALUM CHIP	2.2MF	16V
C95	1-163-034-00	CERAMIC CHIP	0.033MF	50V
C96	1-163-111-00	CERAMIC CHIP	56PF	50V
C97	1-135-155-21	TANTALUM CHIP	4.7MF	16V
C98	1-135-155-21	TANTALUM CHIP	4.7MF	16V
C102	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C103	1-163-036-11	CERAMIC CHIP	0.068MF	50V
C105	1-135-199-21	CERAMIC CHIP	1MF	16V
C106	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C107	1-126-933-11	ELECT	100MF	16V
C108	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C111	1-163-104-00	CERAMIC CHIP	30PF	50V
C112	1-104-329-11	CERAMIC CHIP	0.1MF	50V
C113	1-163-125-00	CERAMIC CHIP	220PF	50V
C114	1-104-329-11	CERAMIC CHIP	0.1MF	50V
C115	1-163-275-11	CERAMIC CHIP	1000PF	50V
C116	1-164-695-11	CERAMIC CHIP	2200PF	50V
C117	1-124-360-00	ELECT	1000MF	16V
C118	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C120	1-161-063-00	CERAMIC	0.1MF	50V
C121	1-161-063-00	CERAMIC	0.1MF	50V
C122	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C123	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C124	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C125	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C126	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C127	1-104-329-11	CERAMIC CHIP	0.1MF	50V
C128	1-161-063-00	CERAMIC	0.1MF	50V
C129	1-163-251-11	CERAMIC CHIP	100PF	50V
C130	1-104-329-11	CERAMIC CHIP	0.1MF	50V
C131	1-104-329-11	CERAMIC CHIP	0.1MF	50V
C132	1-104-329-11	CERAMIC CHIP	0.1MF	50V
C133	1-104-329-11	CERAMIC CHIP	0.1MF	50V
C134	1-104-329-11	CERAMIC CHIP	0.1MF	50V
C135	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C138	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C910	1-163-235-11	CERAMIC CHIP	22PF	50V
C911	1-163-251-11	CERAMIC CHIP	100PF	50V
C912	1-163-009-11	CERAMIC CHIP	1000PF	50V
C913	1-163-251-11	CERAMIC CHIP	100PF	50V
C914	1-163-251-11	CERAMIC CHIP	100PF	50V
C915	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C916	1-164-232-11	CERAMIC CHIP	0.01MF	50V
C917	1-163-251-11	CERAMIC CHIP	100PF	50V
C918	1-161-063-00	CERAMIC	0.1MF	50V

<CONNECTOR>

CN1	9-909-440-01	CONNECTOR, FEMALE 11P
CN2	9-909-440-01	CONNECTOR, FEMALE 11P
CN4	9-933-867-01	HARNESS 5P
CN5	9-933-868-01	CONNECTOR 2P
CN6	9-933-869-01	CONNECTOR 7P
CN7	9-933-870-01	CONNECTOR 4P
CN8	9-933-870-01	CONNECTOR 4P
CN9	9-933-871-01	CONNECTOR 2P

<DIODE>

D2	8-719-989-90	DIODE IN4148A
D3	8-719-989-90	DIODE IN4148A
D4	8-719-989-90	DIODE IN4148A
D7	8-719-989-90	DIODE IN4148A
D8	8-719-989-9	DIODE IN4148A
D9	8-719-989-90	DIODE IN4148A
D10	8-719-989-90	DIODE IN4148A
D11	8-719-989-90	DIODE IN4148A
D12	8-719-989-90	DIODE IN4148A
D13	8-719-989-90	DIODE IN4148A
D14	8-719-989-90	DIODE IN4148A
D15	8-719-989-90	DIODE IN4148A
D16	8-719-989-90	DIODE IN4148A
D17	8-719-989-90	DIODE IN4148A
D18	8-719-989-90	DIODE IN4148A
D19	8-719-989-90	DIODE IN4148A
ZD1	8-719-971-83	DIODE RLZJ3.9B
ZD2	8-719-972-57	DIODE RLZJ5.6A
ZD3	8-719-971-95	DIODE RLZJ5.1B
ZD4	8-719-972-03	DIODE RLZJ6.2B
ZD7	8-719-974-36	DIODE RLZJ24D
ZD8	9-719-973-37	DIODE RLZJ11C
ZD12	8-719-972-57	DIODE RLZJ5.6B
ZD13	8-719-971-95	DIODE RLZJ5.1B
ZD14	8-719-971-95	DIODE RLZJ5.1B

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REF. NO.	PART NO.	DESCRIPTION	REMARK
ZD15	8-719-971-95	DIODE RLZJ5.1B	
ZD16	8-719-971-95	DIODE RLZJ5.1B	
ZD17	8-719-971-95	DIODE RLZJ5.1B	
ZD18	8-719-971-95	DIODE RLZJ5.1B	
ZD19	8-719-971-95	DIODE RLZJ5.1B	
ZD20	8-719-971-95	DIODE RLZJ5.1B	
ZD22	8-719-974-36	DIODE RLZJ24D	
		<IC>	
U1	9-904-656-01	IC LA7672	
U2	9-909-431-01	IC 93C56-3	
U3	9-909-432-01	IC Z86E4704PSC	
	1-540-044-11	SOCKET, IC 64P; U3	
U4	8-759-420-04	IC AN5265	
U5	8-759-998-98	IC LM358D	
		<FILTER>	
F3	9-933-740-01	CERAMIC FILTER	
F4	9-933-741-01	IFT	
F5	9-933-742-01	IFT	
F6	9-933-743-01	IFT	
F7	9-933-744-01	CERAMIC TRAP	
		<COIL>	
L1	1-410-381-31	CHIP INDUCTOR 10UH	
L3	1-410-383-31	CHIP INDUCTOR 15UH	
L5	1-410-739-31	CHIP INDUCTOR 0.68UH	
L6	1-410-385-31	CHIP INDUCTOR 22UH	
L12	1-410-393-11	CHIP INDUCTOR 100UH	
L15	1-410-386-31	CHIP INDUCTOR 27UH	
L18	1-410-385-31	CHIP INDUCTOR 22UH	
L21	1-410-369-31	CHIP INDUCTOR 1UH	
L22	1-410-385-31	CHIP INDUCTOR 22UH	
L23	1-410-658-31	CHIP INDUCTOR 220UH	
L24	1-410-658-31	CHIP INDUCTOR 220UH	
L25	1-410-393-11	CHIP INDUCTOR 100UH	
		<TRANSISTOR>	
Q1	8-729-232-18	TRANSISTOR 2SC3605	
Q2	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q3	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q4	9-909-448-01	TRANSISTOR 2N3906	
Q5	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q6	8-729-901-00	TRANSISTOR DTC124EK	
Q7	8-729-139-04	TRANSISTOR 2N3904	
Q8	9-909-448-01	TRANSISTOR 2N3906	
Q10	8-729-901-00	TRANSISTOR DTC124EK	
Q13	8-729-901-05	TRANSISTOR DTA124EK	
Q14	8-729-901-00	TRANSISTOR DTC124EK	
Q15	8-729-901-00	TRANSISTOR DTC124EK	
Q16	8-729-901-05	TRANSISTOR DTA124EK	
Q17	8-729-901-05	TRANSISTOR DTA124EK	
Q18	9-933-705-01	TRANSISTOR BT169D	
Q19	8-729-231-92	TRANSISTOR 2SD799	
Q21	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q23	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	

REF. NO.	PART NO.	DESCRIPTION		REMARK
Q26	8-729-139-04	TRANSISTOR 2N3904		
Q27	9-909-448-01	TRANSISTOR 2N3906		
Q28	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA		
Q29	8-729-139-04	TRANSISTOR 2N3904		
Q30	8-729-140-84	TRANSISTOR 2SC1814-PAFAEA		
Q31	8-729-140-84	TRANSISTOR 2SC1814-PAFAEA		
Q32	8-729-140-84	TRANSISTOR 2SC1814-PAFAEA		
Q33	8-729-140-84	TRANSISTOR 2SC1814-PAFAEA		
Q34	8-729-140-84	TRANSISTOR 2SC1814-PAFAEA		
		<RESISTOR>		
R2	1-216-073-00	RES, CHIP	10K	1/10W
R6	1-216-073-00	RES, CHIP	10K	1/10W
R7	1-216-073-00	RES, CHIP	10K	1/10W
R8	1-216-115-00	RES, CHIP	560K	1/10W
R9	1-216-046-00	RES, CHIP	750	1/10W
R10	1-216-057-00	RES, CHIP	2.2K	1/10W
R11	1-208-789-11	RES, CHIP	2K	1/10W
R12	1-208-774-11	RES, CHIP	470	1/10W
R13	1-208-794-11	RES, CHIP	3.3K	1/10W
R14	1-208-794-11	RES, CHIP	3.3K	1/10W
R15	1-208-817-11	RES, CHIP	30K	1/10W
R16	1-216-037-00	RES, CHIP	330	1/10W
R17	1-216-099-00	RES, CHIP	120K	1/10W
R18	1-216-049-00	RES, CHIP	1K	1/10W
R19	1-216-073-00	RES, CHIP	10K	1/10W
R20	1-208-798-11	RES, CHIP	4.7K	1/10W
R21	1-216-073-00	RES, CHIP	10K	1/10W
R22	1-216-065-00	RES, CHIP	4,7K	1/10W
R23	1-208-776-11	RES, CHIP	560	1/10W
R24	1-216-089-00	RES, CHIP	47K	1/10W
R25	1-216-073-00	RES, CHIP	10K	1/10W
R26	1-216-029-00	RES, CHIP	150	1/10W
R28	1-208-770-11	RES, CHIP	330	1/10W
R29	1-208-770-11	RES, CHIP	330	1/10W
R30	1-208-770-11	RES, CHIP	330	1/10W
R31	1-216-070-00	RES, CHIP	7.5K	1/10W
R32	1-216-073-00	RES, CHIP	10K	1/10W
R33	1-216-073-00	RES, CHIP	10K	1/10W
R34	1-208-799-11	RES, CHIP	5.1K	1/10W
R35	1-216-075-00	RES, CHIP	12K	1/10W
R36	1-216-073-00	RES, CHIP	10K	1/10W
R37	1-216-073-00	RES, CHIP	10K	1/10W
R38	1-216-073-00	RES, CHIP	10K	1/10W
R39	1-216-057-00	RES, CHIP	2.2K	1/10W
R40	1-216-073-00	RES, CHIP	10K	1/10W
R41	1-216-073-00	RES, CHIP	10K	1/10W
R42	1-216-081-00	RES, CHIP	22K	1/10W
R43	1-208-817-11	RES, CHIP	30K	1/10W
R44	1-208-804-11	RES, CHIP	8.2K	1/10W
R45	1-208-750-11	RES, CHIP	47	1/10W
R49	1-208-813-11	RES, CHIP	20K	1/10W
R50	1-208-813-11	RES, CHIP	20K	1/10W
R52	1-208-774-11	RES, CHIP	470	1/10W
R53	1-216-103-00	RES, CHIP	180K	1/10W
R55	1-216-073-00	RES, CHIP	10K	1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK
	9-909-461-01	SCREW M2.6×8 W/WASHER	
	9-909-462-01	SCREW M3×8	
	9-909-464-01	ANTENA CONTACT PLATE	

REF. NO.	PART NO.	DESCRIPTION	REMARK
R222	1-216-057-00	RES, CHIP 2.2K	1/10W

The components identified by marking and mark Δ are critical for safety. Replace only with part number specified.

R62	1-208-822-11	RES, CHIP	47K	1/10W
R63	1-208-822-11	RES, CHIP	47K	1/10W
R64	1-216-021-00	RES, CHIP	68	1/10W
R65	1-216-097-00	RES, CHIP	100K	1/10W
R66	1-216-097-00	RES, CHIP	100K	1/10W
R67	1-216-097-00	RES, CHIP	100K	1/10W
R68	1-216-081-00	RES, CHIP	22K	1/10W
R70	1-208-790-11	RES, CHIP	2.2K	1/10W
R71	1-208-790-11	RES, CHIP	2.2K	1/10W
R73	1-216-073-00	RES, CHIP	10K	1/10W
R74	1-208-788-11	RES, CHIP	1.8K	1/10W
R75	1-208-822-11	RES, CHIP	47K	1/10W
R76	1-216-073-00	RES, CHIP	10K	1/10W
R77	1-208-798-11	RES, CHIP	4.7K	1/10W
R80	1-216-097-00	RES, CHIP	100K	1/10W
R81	1-216-097-00	RES, CHIP	100K	1/10W
R82	1-216-097-00	RES, CHIP	100K	1/10W
R83	1-216-097-00	RES, CHIP	100K	1/10W
R84	1-216-070-00	RES, CHIP	7.5K	1/10W
R85	1-216-077-00	RES, CHIP	15K	1/10W
R86	1-216-086-00	RES, CHIP	36K	1/10W
R87	1-216-073-00	RES, CHIP	10K	1/10W
R92	1-216-061-00	RES, CHIP	3.3K	1/10W
R93	1-208-798-11	RES, CHIP	4.7K	1/10W
R94	1-208-752-11	RES, CHIP	1K	1/10W
R95	1-208-794-11	RES, CHIP	3.3K	1/10W
R96	1-216-029-00	RES, CHIP	150	1/10W
R97	1-216-053-00	RES, CHIP	1.5K	1/10W
R99	1-216-058-00	RES, CHIP	2.4K	1/10W
R101	1-216-077-00	RES, CHIP	15K	1/10W
R102	1-216-053-00	RES, CHIP	1.5K	1/10W
R103	1-216-097-00	RES, CHIP	100K	1/10W
R107	1-216-097-00	RES, CHIP	100K	1/10W
R108	1-216-097-00	RES, CHIP	100K	1/10W
R109	1-216-097-00	RES, CHIP	100K	1/10W
R110	1-216-067-00	RES, CHIP	5.6K	1/10W
R111	1-208-778-11	RES, CHIP	680	1/10W
R113	1-216-049-00	RES, CHIP	1K	1/10W
R114	1-249-387-11	CARBON	3.3	1/4W
R115	1-249-385-11	CARBON	2.2	1/4W
R116	1-216-113-00	RES, CHIP	470K	1/10W
R117	1-216-089-00	RES, CHIP	47K	1/10W
R118	1-247-831-00	CARBON	1K	1/4W
R119	1-216-049-00	RES, CHIP	1K	1/10W
R120	1-208-826-11	RES, CHIP	68K	1/10W
R123	1-208-804-11	RES, CHIP	8.2K	1/10W
R124	1-208-794-11	RES, CHIP	3.3K	1/10W
R125	1-216-053-00	RES, CHIP	1.5K	1/10W
R127	1-216-053-00	RES, CHIP	1.5K	1/10W
R128	1-208-755-11	RES, CHIP	75	1/10W
R132	1-216-085-00	RES, CHIP	33K	1/10W
R135	1-208-794-11	RES, CHIP	3.3K	1/10W
R142	1-216-073-00	RES, CHIP	10K	1/10W
R143	1-216-073-00	RES, CHIP	10K	1/10W
R144	1-216-073-00	RES, CHIP	10K	1/10W
R145	1-216-049-00	RES, CHIP	1K	1/10W
R146	1-216-073-00	RES, CHIP	10K	1/10W
R150	1-216-073-00	RES, CHIP	10K	1/10W
R151	1-208-818-11	RES, CHIP	33K	1/10W
R152	1-208-822-11	RES, CHIP	47K	1/10W
R153	1-216-099-00	RES, CHIP	120K	1/10W
R155	1-216-073-00	RES, CHIP	10K	1/10W
R157	1-208-808-11	RES, CHIP	12K	1/10W
R162	1-216-089-00	RES, CHIP	47K	1/10W
R163	1-216-073-00	RES, CHIP	10K	1/10W
R164	1-208-802-11	RES, CHIP	6.8K	1/10W
R165	1-216-049-11	RES, CHIP	1K	1/10W
R168	1-216-073-00	RES, CHIP	10K	1/10W
R173	1-208-789-11	RES, CHIP	2.2K	1/10W
R175	1-208-812-11	RES, CHIP	62K	1/10W
R176	1-216-049-00	RES, CHIP	1K	1/10W
R178	1-216-027-00	RES, CHIP	120	1/10W
R180	1-216-027-00	RES, CHIP	120	1/10W
R183	1-216-049-00	RES, CHIP	1K	1/10W
R184	1-216-049-00	RES, CHIP	1K	1/10W
R185	1-216-097-00	RES, CHIP	100K	1/10W
R187	1-216-049-00	RES, CHIP	1K	1/10W
R188	1-216-049-00	RES, CHIP	1K	1/10W
R190	1-216-089-00	RES, CHIP	47K	1/10W
R191	1-216-073-00	RES, CHIP	10K	1/10W
R192	1-216-073-00	RES, CHIP	10K	1/10W
R193	1-216-039-00	RES, CHIP	390	1/10W
R194	1-216-085-00	RES, CHIP	33K	1/10W
R195	1-216-085-00	RES, CHIP	33K	1/10W
R199	1-216-689-11	RES, CHIP	39K	1/10W
R200	1-216-057-00	RES, CHIP	2.2K	1/10W
R201	1-216-081-00	RES, CHIP	22K	1/10W
R202	1-216-056-00	RES, CHIP	2K	1/10W
R203	1-216-056-00	RES, CHIP	2K	1/10W
R204	1-216-093-00	RES, CHIP	68K	1/10W
R205	1-216-101-00	RES, CHIP	150K	1/10W
R206	1-216-689-11	RES, CHIP	39K	1/10W
R207	1-216-073-00	RES, CHIP	10K	1/10W
R208	1-216-073-00	RES, CHIP	10K	1/10W
R209	1-216-089-00	RES, CHIP	47K	1/10W
R210	1-216-101-00	RES, CHIP	150K	1/10W
R211	1-216-027-00	RES, CHIP	120	1/10W
R212	1-216-049-00	RES, CHIP	1K	1/10W
R213	1-216-049-00	RES, CHIP	1K	1/10W
R214	1-216-049-00	RES, CHIP	1K	1/10W
R215	1-216-043-00	RES, CHIP	560	1/10W
R217	1-216-043-00	RES, CHIP	560	1/10W
R218	1-216-043-00	RES, CHIP	560	1/10W
R219	1-216-049-00	RES, CHIP	1K	1/10W
R220	1-216-043-00	RES, CHIP	560	1/10W
R221	1-216-043-00	RES, CHIP	560	1/10W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

A H

REF. NO.	PART NO.	DESCRIPTION		REMARK
R222	1-216-057-00	RES, CHIP	2.2K	1/10W
R223	1-216-093-00	RES, CHIP	68K	1/10W
R224	1-216-089-00	RES, CHIP	47K	1/10W
R225	1-216-089-00	RES, CHIP	47K	1/10W
R226	1-216-089-00	RES, CHIP	47K	1/10W
R227	1-216-095-00	RES, CHIP	82K	1/10W
R228	1-216-087-00	RES, CHIP	39K	1/10W
R229	1-216-093-00	RES, CHIP	68K	1/10W
R230	1-216-081-00	RES, CHIP	22K	1/10W
R904	1-216-073-00	RES, CHIP	10K	1/10W
R905	1-216-033-00	RES, CHIP	220	1/10W
R906	1-216-063-00	RES, CHIP	3.9K	1/10W
R907	1-216-081-00	RES, CHIP	22K	1/10W
R908	1-216-073-00	RES, CHIP	10K	1/10W
		<TUNER>		
T1	9-909-439-01	TUNER ET(TUMUF3U-291)		
		<VARIABLE RESISTOR>		
VR1	1-228-996-11	RES, ADJ, METAL	50K	
VR3	1-228-996-11	RES, ADJ, METAL	50K	
VR4	1-228-994-11	RES, ADJ, METAL	10K	
VR5	1-228-995-11	RES, ADJ, METAL	22K	
		<CRYSTAL>		
Y1	9-909-437-01	CRYSTAL 4MHz		
Y2	9-909-436-01	CRYSTAL 3.58MHz		

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*9-909-450-01	H BOARD, COMPLETE	
	**********	
9-909-453-01	SPACER LED PG/LED-6	
	<DIODE>	
D1	9-909-451-01	DIODE CSL-F300HG2NT
	<SWITCH>	
K1	1-554-937-11	SWITCH, KEY BOARD
K2	1-554-937-11	SWITCH, KEY BOARD
K3	1-554-937-11	SWITCH, KEY BOARD
K4	1-554-937-11	SWITCH, KEY BOARD
K5	1-554-937-11	SWITCH, KEY BOARD
K6	1-554-937-11	SWITCH, KEY BOARD
K7	1-554-937-11	SWITCH, KEY BOARD

****

MISCELLANEOUS
****

X-4309-319-3	PERMALOY ASSY, CONVERGENCE	
⚠1-526-958-71	SOCKET, PICTURE TUBE	
2-161-889-02	SPACER, DY	
4-039-836-11	EMBLEM (No3, 5), SONY	
4-046-809-01	COVER, HANDLE	
4-046-810-01	COVER, CONTROL PANEL	

REF. NO.	PART NO.	DESCRIPTION	REMARK
	9-909-461-01	SCREW M2.6×8 W/WASHER	
	9-909-462-01	SCREW M3×8	
	9-909-464-01	ANTENA CONTACT PLATE	
	9-909-466-01	RUBBER FOOT	
	9-909-470-01	BEZEL SUB ASSY	
	9-909-471-01	HANDOL ASSY	
	9-909-472-01	BOTTOM CABINET SUB ASSY	
	9-909-473-01	TOP CABINET SUB ASSY	
⚠1-452-749-11	NECK ASSY (NA-201)		
⚠8-451-454-11	DEFLECTION YOKE (Y06JSA2K)		
⚠8-738-658-05	PICTURE TUBE (A13LDS00X)		
	9-909-460-01	SPEAKER	
	9-909-465-01	ANTENA	

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ACCESSRIES & PACKING MATERIALS
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1-690-044-13	CAR BATTERY CORD	
⚠1-473-111-11	AC ADAPTOR	

9-965-004-01

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